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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,597	01/18/2006	Declan Patrick Kelly	CN 020040	9072
	7590 05/22/200 LLECTUAL PROPER	EXAMINER		
P.O. BOX 3001		CHOKSHI, PINKAL R		
BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER
			2623	
		MAIL DATE	DELIVERY MODE	
			05/22/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary    10/540,597			Арр	lication No.	Applicant(s)				
PINIVAL CHOKSHI  2623  Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SETTO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER. FROM THE MAILING DATE OF THIS COMMUNION TOWN a reply to this limitely laid and the continuous communication.  If NO period for reply is specified above, the macrimum stabutory period will apply and visit egyins X (50 MXN1HS from the realing date of this communication.  If NO period for reply is specified above, the macrimum stabutory period will apply and visit egyins X (50 MXN1HS from the realing date of this communication.  If NO period for reply is specified above, the macrimum stabutory period will apply and visit egyins X (50 MXN1HS from the realing date of this communication.  If NO period for reply is specified above, the macrimum stabutory period will apply and visit egyins X (50 MXN1HS from the realing date of this communication.  If NO period for reply is specified above, the macrimum stabutory period will apply and visit egyins X (50 MXN1HS from the realing date of this communication.  If NO period for reply is specified above, the macrimum stabutory period will apply and visit egyins X (50 MXN1HS from the realing date of this communication.  If NO period for reply is specified above, the macrimum stabutory period will apply and visit egyins X (50 MXN1HS from the realing date of this communication.  If NO period for reply is specified above, the macrimum stabutory period will apply and visit egyins X (50 MXN1HS from the realing date of this communication.  If NO period for reply is specified above, the macrimum stabutory period will apply and visit egyins X (50 MXN1HS from the replication is communication.  If NO period for reply specified and the period of the communication.  If NO period for reply specified and the period of the period your period of t	Office Action Summary			540,597	KELLY ET AL.				
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Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - and state of the provided of the communication of the communication of the provided of the provided of the communication of the provided of the provided of the communication of the provided o			PIN	KAL CHOKSHI	2623				
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1) ⊠ Responsive to communication(s) filed on @3 July 2007.  2a) ☐ This action is FINAL. 2b) ⊠ This action is non-final.  3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) ☒ Claim(s)	A SH WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M Insions of time may be available under the provision SIX (6) MONTHS from the mailing date of this come period for reply is specified above, the maximum some to reply within the set or extended period for replayerly received by the Office later than three months	MAILING DATE ( s of 37 CFR 1.136(a). I munication. tatutory period will apply y will, by statute, cause	OF THIS COMMUN n no event, however, may y and will expire SIX (6) M the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).				
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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. **Claims 1-5, 8-12, and 15-20** are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 6,556,546 B1 to Maeda et al (hereafter referenced as Maeda) in view of US Patent 6,504,996 B1 to Na et al (hereafter referenced as Na).

Regarding **claim 1**, "a digital broadcast method for supporting DVD recording" reads on the method for transmission and reception of audio/video data stream which is recorded on DVD media (abstract) disclosed by Maeda and represented in Fig. 1.

As to "a method comprising: providing a video elementary stream, an audio elementary stream and a navigation data stream of at least one of DVD programs" Maeda discloses (col.2, lines 42-50) that it presents audio/video data of DVD along with procedure and selection information data for playing back audio/video data.

As to "packing said video elementary stream, said audio elementary stream and said navigation data stream into a transport stream" Maeda discloses (col.2, lines 42-50) that the audio/video data and procedure information data are multiplexed into a packet and transmitted to a recording media.

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Maeda does not explicitly teach that the packets received are transport streams. Maeda meets all the limitations of the claim except "broadcasting said transport stream." However, Na discloses (col.3, lines 6-9) that the receiver receives the broadcasting MPEG-2 transport stream. Therefore, it would have been obvious to one of ordinary skills in the art at the time of the invention to broadcast transport stream to receiving device as taught by Na in order to reproduce DVD information using receiving device (col.3, lines 5-6).

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Regarding **claim 2**, Maeda meets all the limitations of the claim except "the method, wherein, said packing is carried out according to a digital broadcast standard, and said navigation data stream is loaded into the transport stream as a private stream of the digital broadcast standard." However, Na discloses (col.1, lines 16-20; col.4, lines 25-31) that all the data in program stream are approved in MPEG standard such as audio pack, video pack, and navigation pack. Therefore, it would have been obvious to one of ordinary skills in the art at the time of the invention to use broadcast/MPEG standard to transmit streams as taught by Na in order to reproduce standard DVD information with ease (col.3, lines 5-6).

Regarding **claim 3**, Maeda meets all the limitations of the claim except "the method, wherein the navigation data includes in-stream data and out-stream data." However, Na discloses (col.4, lines 31-35) that the navigation pack

includes various types of information capable of controlling bit steam and menu button information. Therefore, it would have been obvious to one of ordinary skills in the art at the time of the invention to use broadcast/MPEG standard to transmit streams as taught by Na in order to reproduce standard DVD information with ease (col.3, lines 5-6).

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Regarding **claim 4**, Maeda meets all the limitations of the claim except "the method, wherein said in-stream data includes data for searching and data for reproduction control." However, Na discloses (col.4, lines 31-35) that the navigation pack includes various types of information capable of controlling bit steam and disc search information. Therefore, it would have been obvious to one of ordinary skills in the art at the time of the invention to use broadcast/MPEG standard to transmit streams as taught by Na in order to reproduce standard DVD information with ease (col.3, lines 5-6).

Regarding **claim 5**, "the method, wherein said out-stream data includes data for generating menus" Na discloses (col.4, lines 37-39) that the menu is displayed with screen control information stored in the navigation pack.

Therefore, it would have been obvious to one of ordinary skills in the art at the time of the invention to use broadcast/MPEG standard to transmit streams as taught by Na in order to reproduce standard DVD information with ease (col.3, lines 5-6).

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Regarding **claim 8**, "a method for receiving and recording DVD digital broadcast" reads on the method for transmission and reception of audio/video data stream which is recorded on DVD media (abstract) disclosed by Maeda and represented in Fig. 1.

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As to "a method comprising: acquiring a video elementary stream, an audio elementary stream and a navigation data stream of at least one of DVD programs from the transport stream" Maeda discloses (col.2, lines 42-46) that it presents audio/video data along with procedure and selection information data for playing back audio/video data.

As to "synthesizing said video elementary stream, audio elementary stream and navigation data stream into a DVD program stream" Maeda discloses (col.2, lines 42-50) that the audio/video data and procedure information data are multiplexed into a packet and transmitted to a recording media.

As to "recording the DVD program stream onto a recording medium in a DVD format" Maeda discloses (col.2, lines 8-13) that the MPEG2 digital video data, audio data and procedure information that met the DVD standard, are recorded in the device.

Maeda does not explicitly teach that the packets received are transport streams. Maeda meets all the limitations of the claim except "receiving a broadcast transport stream." However, Na discloses (col.3, lines 6-9) that the receiver receives the broadcasting MPEG-2 transport stream. Therefore, it

would have been obvious to one of ordinary skills in the art at the time of the invention to broadcast transport stream to receiving device as taught by Na in

order to reproduce DVD information using receiving device (col.3, lines 5-6).

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Regarding **claim 9**, Maeda meets all the limitations of the claim except "the method, wherein the transport stream complies with a digital broadcast standard, the navigation data stream is loaded into the transport stream as a private data stream of the digital broadcast standard." However, Na discloses (col.1, lines 16-20; col.4, lines 25-31) that all the data in program stream are approved in MPEG standard such as audio pack, video pack, and navigation pack. Therefore, it would have been obvious to one of ordinary skills in the art at the time of the invention to use broadcast/MPEG standard to transmit streams as taught by Na in order to reproduce standard DVD information with ease (col.3, lines 5-6).

Regarding **claim 10**, "the method, wherein synthesizing includes: separating the navigation data into the in-stream data and the out-stream data" Maeda discloses (col.3, lines 4-6) that the audio/video data and management information are separated from the received packet stream.

As to "synthesizing the in-stream data, the video elementary stream and the audio elementary stream into the DVD program stream and caching the outstream data" Maeda discloses (col.2, lines 42-50) that the audio/video data are

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multiplexed into a packet along with procedure information which is stored on the recording medium. Maeda further discloses (col.12, lines 11-16) that the device stored playback management information issued from the data separating device.

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As to "said recording includes: recording the out-stream data onto said recording medium" Maeda discloses (col.2, lines 8-13) that the procedure information is being recorded along with MPEG2 audio/video data on the recording device.

Maeda meets all the limitations of the claim except "the method, wherein the navigation data includes in-stream data and out-stream data." However, Na discloses (col.4, lines 31-35) that the navigation pack includes various types of information capable of controlling bit steam and menu button information.

Therefore, it would have been obvious to one of ordinary skills in the art at the time of the invention to use broadcast/MPEG standard to transmit streams as taught by Na in order to reproduce standard DVD information with ease (col.3, lines 5-6).

Regarding **claim 11**, Maeda meets all the limitations of the claim except "the method, wherein said in-stream data includes data for searching and data for reproduction control." However, Na discloses (col.4, lines 31-35) that the navigation pack includes various types of information capable of controlling bit steam and disc search information. Therefore, it would have been obvious to

one of ordinary skills in the art at the time of the invention to use broadcast/MPEG standard to transmit streams as taught by Na in order to reproduce standard DVD information with ease (col.3, lines 5-6).

Regarding **claim 12**, "the method, wherein said out-stream data includes data for generating menus" Na discloses (col.4, lines 37-39) that the menu is displayed with screen control information stored in the navigation pack.

Therefore, it would have been obvious to one of ordinary skills in the art at the time of the invention to use broadcast/MPEG standard to transmit streams as taught by Na in order to reproduce standard DVD information with ease (col.3, lines 5-6).

Regarding **claim 15**, "a digital broadcast system for supporting DVD recording" reads on the method for transmission and reception of audio/video data stream which is recorded on DVD media (abstract) disclosed by Maeda and represented in Fig. 1.

As to "a system comprising: program source means, for generating a video elementary stream, an audio elementary stream and a navigation data stream of at least one of DVD programs" Maeda discloses (col.2, lines 8-13, 42-46) that the system presents MPEG2 audio/video data with procedure and selection information data for playing back audio/video data.

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As to "and digital front end means, packing said video elementary stream, said audio elementary stream and said navigation data stream from said program source means into a transport stream" Maeda discloses (col.2, lines 42-50) that the audio/video data and procedure information data are multiplexed into a packet and transmitted to a recording media.

Maeda does not explicitly teach that the packets received are transport streams. Maeda meets all the limitations of the claim except "outputting the transport stream to a broadcast network for broadcasting." However, Na discloses (col.3, lines 6-9) that the receiver receives the broadcasting MPEG-2 transport stream. Therefore, it would have been obvious to one of ordinary skills in the art at the time of the invention to broadcast transport stream to receiving device as taught by Na in order to reproduce DVD information using receiving device (col.3, lines 5-6).

Regarding claim 16, Maeda meets all the limitations of the claim except "the system, wherein said digital front end means packs said video elementary stream, said audio elementary stream and said navigation data stream into said transport stream according to a digital broadcast standard, wherein said navigation data stream is loaded into said transport stream as a private stream of the digital broadcast standard." However, Na discloses (col.1, lines 16-20; col.4, lines 25-31) that all the data in program stream are approved in MPEG standard such as audio pack, video pack, and navigation pack. Therefore, it would have

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been obvious to one of ordinary skills in the art at the time of the invention to use broadcast/MPEG standard to transmit streams as taught by Na in order to reproduce standard DVD information with ease (col.3, lines 5-6).

Regarding **claim 17**, "the system, further including a plurality of receiving means, wherein at least one of them has a DVD recording function" Maeda discloses (col.2, lines 46-50) that the audio/video data received are recorded in DVD recording medium.

Regarding **claim 18**, "a device for receiving and recording DVD digital broadcast" reads on the method for transmission and reception of audio/video data stream which is recorded on DVD media (abstract) disclosed by Maeda and represented in Fig. 1.

As to "comprising: acquiring means, acquiring a video elementary stream, an audio elementary stream and a navigation data stream of at least one of DVD programs from said transport stream" Maeda discloses (col.2, lines 42-46) that it presents audio/video data along with procedure and selection information data for playing back audio/video data.

As to "synthesizing means, synthesizing said video elementary stream, said audio elementary stream and said navigation data stream into a DVD program stream" Maeda discloses (col.2, lines 42-50) that the audio/video data

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and procedure information data are multiplexed into a packet and transmitted to a recording media.

As to "DVD producing and recording means, recording the DVD program stream onto a recording medium in a DVD format" Maeda discloses (col.2, lines 8-13) that the MPEG2 digital video data, audio data and procedure information that met the DVD standard, are recorded in the device.

Maeda does not explicitly teach that the packets received are transport streams. Maeda meets all the limitations of the claim except "receiving means, receiving a broadcast transport stream." However, Na discloses (col.3, lines 6-9) that the receiver receives the broadcasting MPEG-2 transport stream. Therefore, it would have been obvious to one of ordinary skills in the art at the time of the invention to broadcast transport stream to receiving device as taught by Na in order to reproduce DVD information using receiving device (col.3, lines 5-6).

Regarding **claim 19**, Maeda meets all the limitations of the claim except "the device, wherein said transport stream complies with an existing digital broadcast standard, the navigation data stream is loaded into said transport stream as a private data stream of the digital broadcast standard" Na discloses (col.1, lines 16-20; col.4, lines 25-31) that all the data in program stream are approved in MPEG standard such as audio pack, video pack, and navigation pack.

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As to "acquiring means includes: a demultiplexer, for demultiplexing said transport stream and acquiring video data, audio data and navigation data of a program" Na discloses (col.8, lines 30-33) that the demuliplexer demultiplexes MPEG2 TS into a video stream, an audio stream and a navigation stream as represented in Fig. 5 (element 442).

As to "video decoder, for decoding said video data and generating the video elementary stream" Na discloses (col.8, lines 35-37) that the video decoder decodes the video stream and provides video stream to video mixer as represented in Fig. 5 (element 444).

As to "audio decoder, for decoding said audio data and generating the audio elementary stream" Na discloses (col.8, lines 37-39) that the audio decoder decodes the audio signal and provides audio signal as represented in Fig. 5 (element 446).

As to "navigation data decoder, for decoding the navigation data and generating the navigation data stream" Na discloses (col.8, lines 40-43) that the navigation decoder decodes the navigation stream and provides a command to the video mixer as represented in Fig. 5 (element 450).

Therefore, it would have been obvious to one of ordinary skills in the art at the time of the invention to demux, audio/video/navigation decoders to decode data as taught by Na in order to split streams and retrieve original streams.

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Regarding claim 20, "the device, wherein the navigation data includes instream data and out-stream data, and the device further includes: separating means, receiving the navigation data stream generated by the navigation data decoder, separating the navigation data stream into the in-stream data and outstream data and outputting the in-stream data to the synthesizing means and outputting the out-stream data to a buffer" Maeda discloses (col.3, lines 4-6) that the audio/video data and management information are separated from the received packet stream. Maeda further discloses (col.12, lines 11-16) that the device stored playback management information issued from the data separating device.

As to "synthesizing the in-stream data from the separating means, video elementary stream from the video decoder and the audio elementary stream from the audio decoder into the DVD program stream by the synthesizing means" Maeda discloses (col.2, lines 42-50) that the audio/video data are multiplexed into a packet.

As to "recording the synthesized DVD program stream and said outstream data onto the recording medium in the DVD format by the DVD producing and recording means" Maeda discloses (col.2, lines 8-13) that the MPEG2 digital video data, audio data and procedure information that met the DVD standard, are recorded in the device.

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3. Claims 6, 7, 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maeda et al. in view of Na et al as applied to claims 1 and 8 above, and further in view of US Patent 7,043,484 B2 to Rotem et al (hereafter referenced as Rotem).

Regarding **claim 6**, combination of Maeda and Na meets all the limitations of the claim except "the method, wherein said in-stream data includes data for connecting networks." However, Rotem discloses (col.7, line 59-col.8, line 5) that the media server receives DVD images and titles from a plurality of media sources as represented in Fig. 2. Therefore, it would have been obvious to one of ordinary skills in the art at the time of the invention to connect server with multiple media sources/networks as taught by Rotem in order to have more selection of DVD title records (col.3, lines 52-53).

Regarding **claim 7**, combination of Maeda and Na meets all the limitations of the claim except "the method, wherein the in-stream data includes video and/or audio data selected by a broadcaster." However, Rotem discloses (col.8, lines 6-10) that based on the request received; server selects and produces a audio/video DVD image from database. Therefore, it would have been obvious to one of ordinary skills in the art at the time of the invention to connect server with multiple media sources/networks as taught by Rotem in order to have more selection of DVD title records (col.3, lines 52-53).

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Regarding **claim 13**, combination of Maeda and Na meets all the limitations of the claim except "the method, wherein said in-stream data includes data for connecting networks." However, Rotem discloses (col.7, line 59-col.8, line 5) that the media server receives DVD images and titles from a plurality of media sources as represented in Fig. 2. Therefore, it would have been obvious to one of ordinary skills in the art at the time of the invention to connect server with multiple media sources/networks as taught by Rotem in order to have more selection of DVD title records (col.3, lines 52-53).

Regarding **claim 14**, combination of Maeda and Na meets all the limitations of the claim except "the method, wherein said in-stream data includes video and/or audio data selected by a broadcaster." However, Rotem discloses (col.8, lines 6-10) that based on the request received; server selects and produces a audio/video DVD image from database. Therefore, it would have been obvious to one of ordinary skills in the art at the time of the invention to connect server with multiple media sources/networks as taught by Rotem in order to have more selection of DVD title records (col.3, lines 52-53).

## Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PINKAL CHOKSHI whose telephone number is (571)

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270-3317. The examiner can normally be reached on Monday-Friday 8 - 5 pm (Alt.

Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Pendleton can be reached on 571-272-7527. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/PRC/ /Brian T. Pendleton/ Supervisory Patent Examiner, Art Unit 2623